

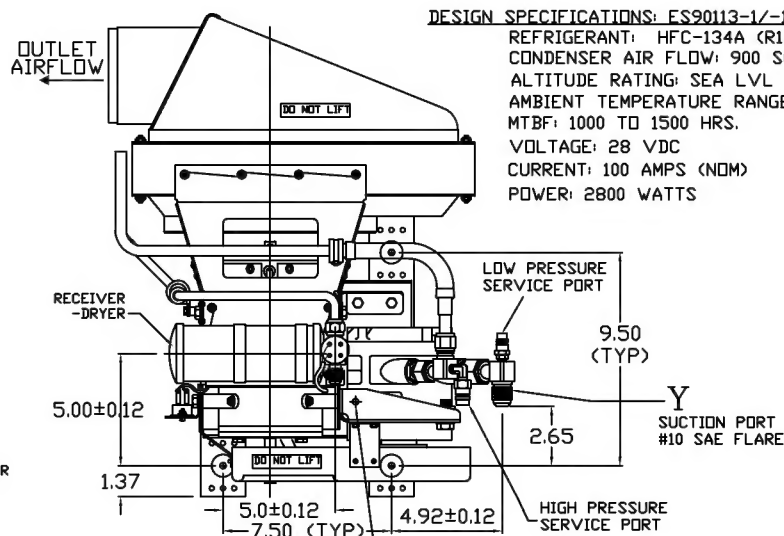
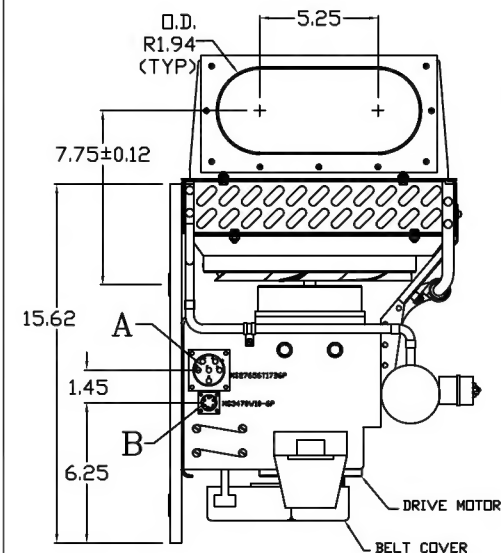
THIS DRAWING DEFINES THE OVERALL GEOMETRY & PERFORMANCE SPECIFICATIONS OF AIR CONDITIONER EVAPORATORS APPLIED FOR AIRCRAFT USE & CONSTITUTES THE ACCEPTANCE CRITERIA THEREOF. CONFORMANCE OF HDWR TO THESE REQ'S IS ACCEPTABLE IN LIEU OF VENDOR DOCUMENTATION.

NOTES:

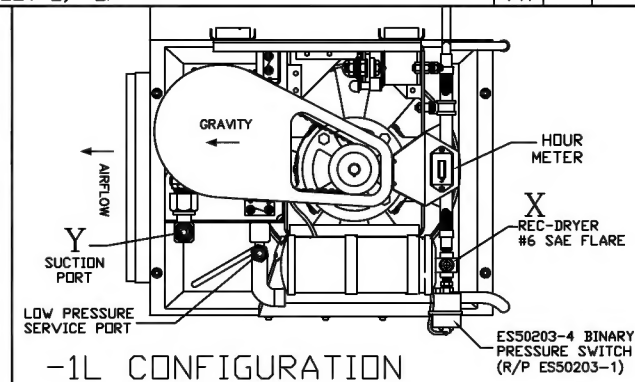
1. EFFECTIVE 60 SQ. IN. FRESH AIR EXHAUST REQ'D. MAX FAN BACKPRESSURE 0.10 IN. H₂O
2. PLASTIC PARTS MEET for 25.853b BURN SPEC.
3. USE EVAPORATORS WITH AUTOMATIC EXPANSION VALVES SET NO LOWER THAN 30 PSIG.

ACCEPTED SOURCE: ENVIRO SYSTEMS INC.
4000 HIGHWAY 99 NORTH
SEMINOLE, OK, 74868
(405)-382-0731

SHEET	REV	DATE	DESCRIPTION	BY	APR	CHK
1	A	05/16/08	SPEC'D BINARY PRESS SWITCHES AS ES50203-X.		REB	CEH
1	B	06/25/09	ES50203-3 WAS ES50203-1/-2 (ON -1/-1L CONFIGS). CRCT'N: "COMP. COND. MOD." WAS "EVAPORATOR" IN TABLE AND NOTE 1.		BNS	CEH
1	C	08/20/09	ES50203-4 WAS ES50203-3. ADDED MFR'R DATA TO BE CONSISTENT WITH ES90112.		REB	CEH
1	D	03/02/2011	THERMAL FUSE ADDED; P/N 1134400-25 S/N 103 & SUBS.	REB		
2	E	08/04/2016	ADDED SHEET 2, -2.	PM		



DESIGN SPECIFICATIONS: ES90113-1/-1D/-1DL/-1L/-2
REFRIGERANT: HFC-134a (R134a)
CONDENSER AIR FLOW: 900 SCFM
ALTITUDE RATING: SEA LVL TO 18000 FT
AMBIENT TEMPERATURE RANGE: -45 TO 165°F
MTBF: 1000 TO 1500 HRS.
VOLTAGE: 28 VDC
CURRENT: 100 AMPS (NOM)
POWER: 2800 WATTS



CONNECTION BLOCK

CONNECTION	DESCRIPTION	TYPE	SIZE
A	MOTOR INPUT POWER 28 VDC CONNECTION	ELECTRICAL	3/8-24 THD
B	UNIT AND MOTOR GROUND CONNECTION	ELECTRICAL	MS3470W10-6P RECEPTACLE
X	REC-DRYER DISCHARGE PORT CONNECTION	REFRIGERANT	3/8 TUBE "O" FTG. 5/8-18 THD
Y	COMPRESSOR SUCTION PORT CONNECTION	REFRIGERANT	5/8 TUBE "O" FTG. 7/8-14 THD

TABULATION BLOCK

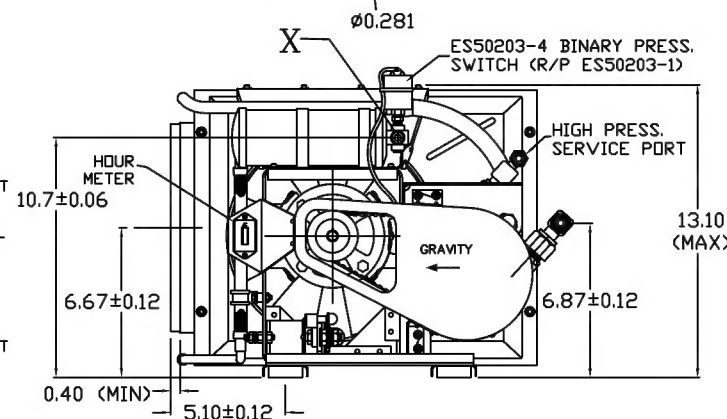
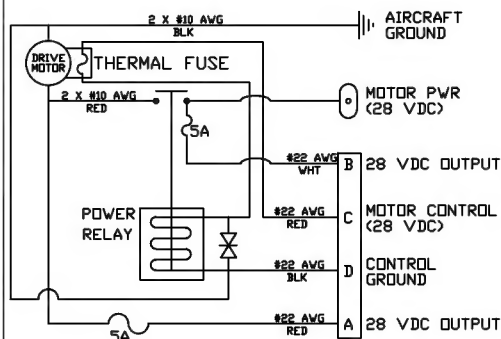
CONFIG.	STOCK NO.	CAPACITY (BTUH)	COND. HEAT REJ. (BTUH) 95°F 103°F	WEIGHT (LBS)	NOTES
-1	1134400-25	16500	25000	TBD	51.0 RIGHT HAND
-1D	1134400-45	N/A	N/A	N/A	51.0 DIGITAL, RH
-1DL	1134400-46	N/A	N/A	N/A	51.0 DIGITAL, LH
-1L	1134400-26	16500	25000	TBD	51.0 LEFT HAND

RECEPTACLES ON THE UNIT AND MATING PLUG CONNECTORS ARE AS FOLLOWS:

A. MS27656T17B6P → MS27467T17B6S

B. MS3470W10-6P → MS3476W10-6S

A & B ARE PLUG LABELS. A IS THE A/C POWER IN, B IS D/C CONTROL POWER. MAY ALSO REF PIN DESIGNATIONS ON ELECTRICAL SCHEMATIC. MATING PLUG CONNECTORS NOT SUPPLIED WITH UNIT.



-1/-1D/-1DL CONFIGURATION (-1 SHOWN)

BINARY PRESSURE SWITCH
HIGH PRESSURE: OPEN ON RISE @ 355-412 PSIG, CLOSE ON FALL @ 85±30 PSIG BELOW OPEN PRES.
LOW PRESSURE: OPEN ON FALL @ 25-35 PSIG, CLOSE ON RISE @ 25-35 PSIG

CONFIDENTIAL INFORMATION-
THE INFORMATION AND DATA CONTAINED HEREIN
IS PROPRIETARY AND IS SUBMITTED IN CONFIDENCE,
AND SHALL NOT BE DISCLOSED, USED OR DUPLICATED
FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR
WRITTEN PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

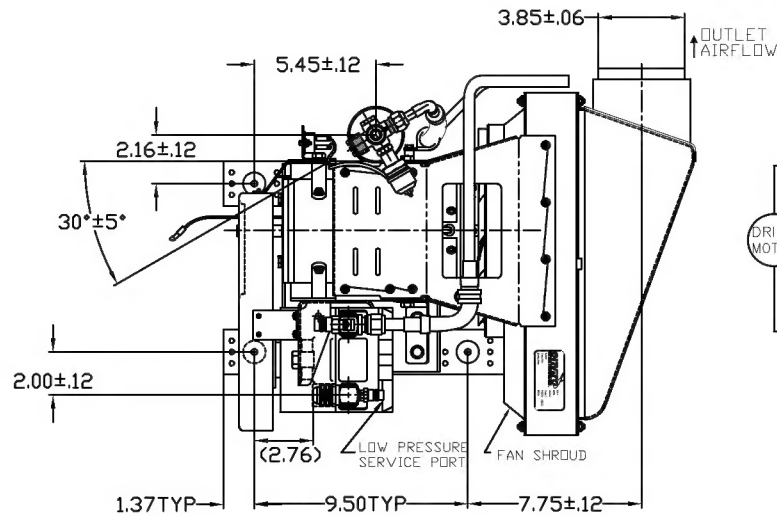
N/C

Paravion® Inc. Technology		TITLE COMPRESSOR/CONDENSER MODULE		DRAWING NO. ES90113	
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED:		DRAWN BY	APRVD. BY	CHK'D BY	DATE
.X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°		REB	REB		11/17/04
THREADS: INTERNAL=CLASS 2B EXTERNAL=CLASS 2A		DO NOT SCALE DRAWING			REV E
		SHEET 1 OF 2			ECO

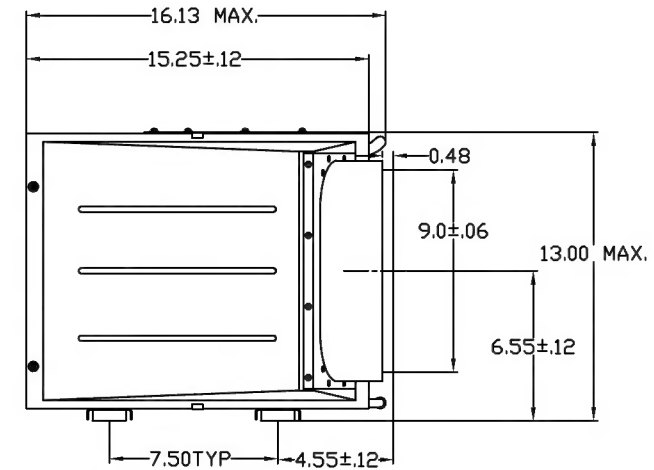
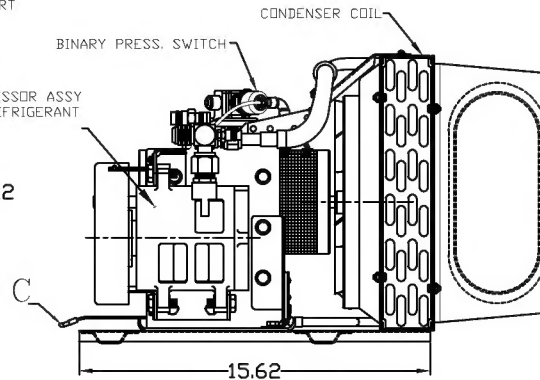
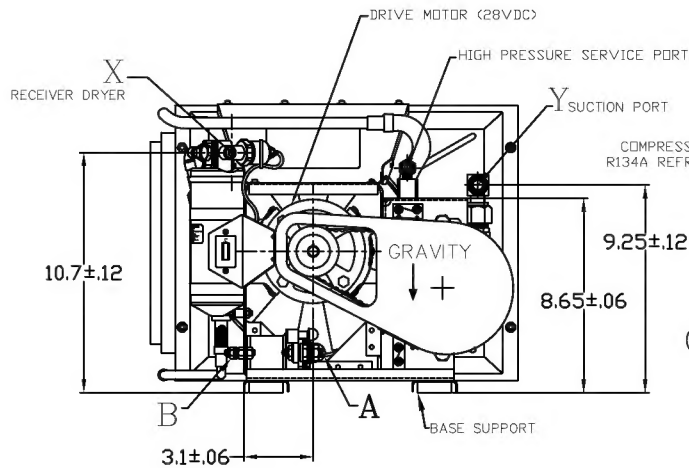
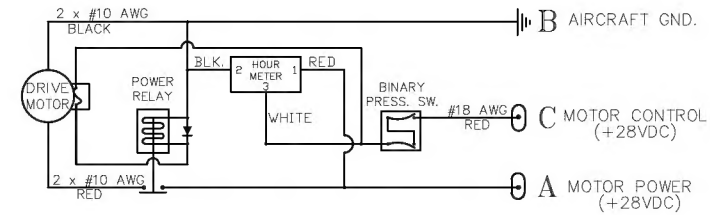
© 2016 PARAVION TECH., INC.
PARAVION IS A TRADEMARK OF
PARAVION TECHNOLOGY, INC.

TABULATION BLOCK

CONFIG.	STOCK NO.	CAPACITY (BTUH)	COND. HEAT REJ. (BTUH)		WEIGHT (LBS)
			95°F	103°F	
-2	1134400-58	16500	25000	TBD	48.0



CONNECTION BLOCK			
CONNECTION	DESCRIPTION	TYPE	SIZE
A	MOTOR INPUT POWER +28VDC CONNECTION	ELECTRICAL	3/8-24 THD
B	UNIT AND MOTOR GROUND CONNECTION	ELECTRICAL	1/4-28 THD
C	MOTOR RELAY CONTROL POWER, +28VDC CONNECTION	ELECTRICAL	AMP TERMINAL #31770
X	REC-DRYER DISCHARGE PORT CONNECTION	REFRIGERANT	#6 SAE FLARE 5/8-18 THD
Y	COMPRESSOR SUCTION PORT CONNECTION	REFRIGERANT	#10 SAE FLARE 7/8-14 THD



-2 CONFIGURATION

—CONFIDENTIAL INFORMATION—
THE INFORMATION AND DATA CONTAINED HEREIN IS PROPRIETARY AND IS SUBMITTED IN CONFIDENCE, AND SHALL NOT BE DISCLOSED, USED OR DUPLICATED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF PARAVION TECHNOLOGY, INC.

PROTO

N/C

Paravion® Inc. ✓Technology		TITLE COMPRESSOR/CONDENSER MODULE			DRAWING NO. ES90113	
DIMENSIONS IN INCHES		DRAWN BY		APRVD. BY	CHK'D BY	DATE
TOLERANCES EXCEPT WHERE NOTED:		PM				08/04/16
.X = ± .1						
.XX = ± .05						
.XXX = ± .010						
ANGLES = ± 1°		DO NOT SCALE DRAWING				
THREADS:		© 2016 PARAVION TECH., INC.				SHEET 2 OF 2
INTERNAL=CLASS 2B		PARAVION IS A TRADEMARK OF				
EXTERNAL=CLASS 2A		PARAVION TECHNOLOGY, INC.				